



Figure 2

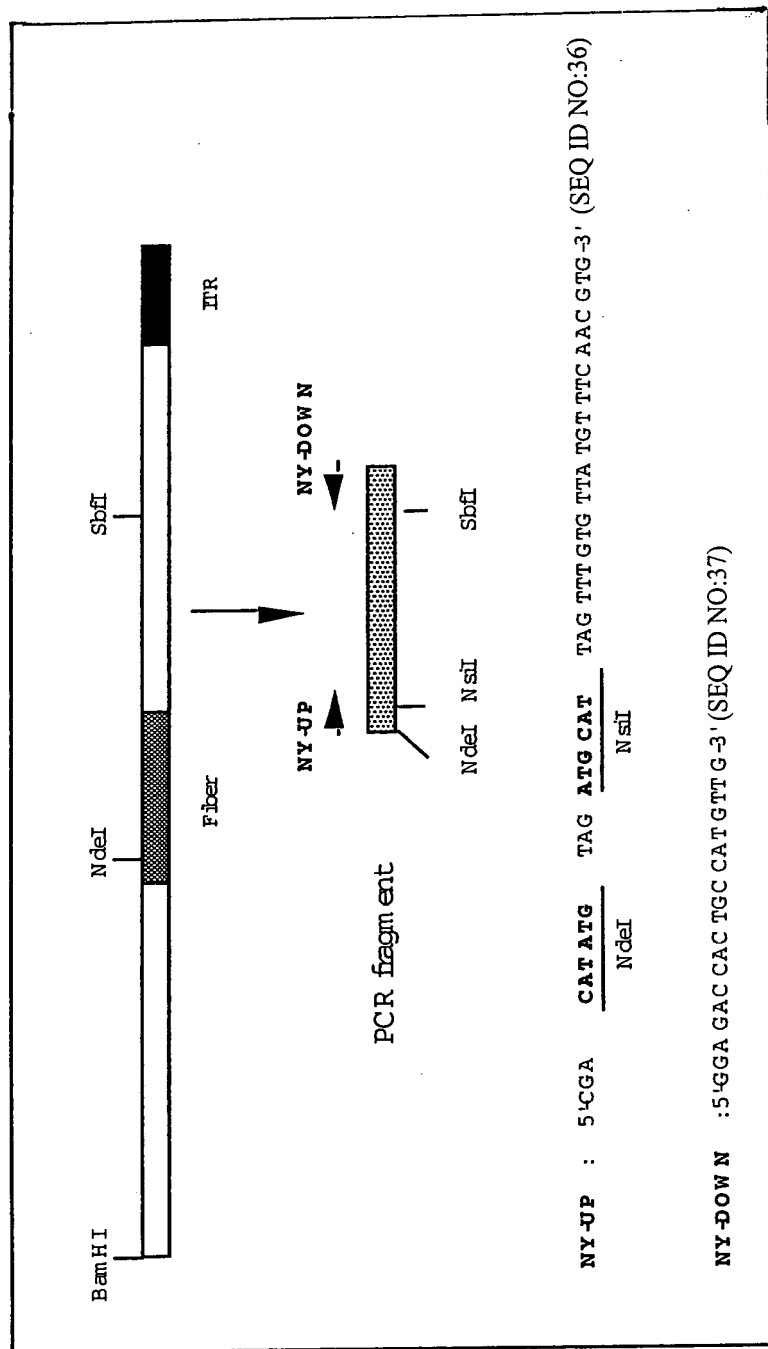




Figure 4: Sequence of Ad5/fib16 chimeric fiber

ATGAAGCGCGCAAGACCGTCTGAAGATACCTTCAACCCCGTGTATCCATATGAAGATGAAAGCAGCT
CACAACACCCCTTTATAAACCCCTGGTTTCATTTCTCAAATGGTTTTGCACAAAGCCCAGATGGAGT
TCTAACTCTTAAATGTGTTAATCCACTCACTACCGCCAGCGGACCCCTCCAACTTAAAGTTGGAAGC
AGTCTTACAGTAGATACTATCGATGGGTCTTTGGAGGAAAATATAACTGCCGAAGCGCCACTCACTA
AAACTAACCCTCCATAGGTTTATTAATAGGATCTGGCTTGCAAACAAAGGATGATAAACTTTGTTT
ATCGCTGGGAGATGGGTTGGTAACAAAGGATGATAAACTATGTTTATCGCTGGGAGATGGGTTAATA
ACAAAAAATGATGTACTATGTGCCAAACTAGGACATGGCCTTGTTGTTTGACTCTTCCAATGCTATCA
CCATAGAAAACAACACCTTGTGGACAGGCGCAAAACCAAGCGCCAACCTGTGTAATTAAAGAGGGAGA
AGATTCCCCAGACTGTAAGCTCACTTTAGTTCTAGTGAAGAATGGAGGACTGATAAATGGATACATA
ACATTAATGGGAGCCTCAGAATATACTAACACCTTGTTTAAAAACAATCAAGTTACAATCGATGTAA
ACCTCGCATTTGATAATACTGGCCAAATTATTACTTACCTATCATCCCTTAAAAGTAACTGAACCTT
TAAAGACAACCAAAACATGGCTACTGGAACCATAACCAGTGCCAAAGGCTTCATGCCCAGCACCACC
GCCTATCCATTTATAACATACGCCACTGAGACCCTAAATGAAGATTACATTTATGGAGAGTGTTACT
ACAAATCTACCAATGGAACCTCTCTTTCCACTAAAAGTTACTGTACACTAAACAGACGTATGTTAGC
TTCTGGAATGGCCTATGCTATGAATTTTTTCATGGTCTCTAAATGCAGAGGAAGCCCCGAAACTACC
GAAGTCACTCTCATTACCTCCCCCTTCTTTTTTCTTATATCAGAGAAGATGACTGAATGCATTAG
(SEQ ID NO:32)



FIGURE 7A

Alignment Report of alignment.DNA, using Clustal method with Weighted residue weight table.
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1  ATGGC - CAAACGAGCTCGGCTAAGCAGCTCCTTCAATCCGGTCTACCCCT Fiber 16 Genbank (SEQ ID NO:33)
1  ATGAGC[GCG]CAAGACGCTCTGA - GATACCTTCAA[C]C[C]GT[GT]A[T]C[A]T Ad5/16 Fiber DNA (SEQ ID NO:38)

50  ATGAAGATGAAAGCAGCTCACAAACACCCCTTTATAAACCCCTGGTTTTCATT Fiber 16 Genbank
50  ATGAAGATGAAAGCAGCTCACAAACACCCCTTTATAAACCCCTGGTTTTCATT Ad5/16 Fiber DNA

100 TCCTCAAATGGTTTTTGCACAAAGCCCAGATGGAGTTCTAACTCTTAAATG Fiber 16 Genbank
100 TCCTCAAATGGTTTTTGCACAAAGCCCAGATGGAGTTCTAACTCTTAAATG Ad5/16 Fiber DNA

150 TGTTAATCCACTCACTACCGCCAGCGGACCCCTCCAACCTTAAAGTTGGAA Fiber 16 Genbank
150 TGTTAATCCACTCACTACCGCCAGCGGACCCCTCCAACCTTAAAGTTGGAA Ad5/16 Fiber DNA

200 GCAGTCTTACAGTAGATACTATCGATGGGTCTTTGGAGGAAAATATAACT Fiber 16 Genbank
200 GCAGTCTTACAGTAGATACTATCGATGGGTCTTTGGAGGAAAATATAACT Ad5/16 Fiber DNA

250 GCCG[C]AGCGCCACTCACTAAAACCTAACCACTCCATAGGTTTATTAATAGG Fiber 16 Genbank
250 GCCG[A]AGCGCCACTCACTAAAACCTAACCACTCCATAGGTTTATTAATAGG Ad5/16 Fiber DNA

300 ATCTGGCTTGCAAACAAAGGATGATAAACTTTGTTTATCGCTGGGAGATG Fiber 16 Genbank
300 ATCTGGCTTGCAAACAAAGGATGATAAACTTTGTTTATCGCTGGGAGATG Ad5/16 Fiber DNA

350 GGTGTTAACAAGGATGATAAACTATGTTTATCGCTGGGAGATGGGTTA Fiber 16 Genbank
350 GGTGTTAACAAGGATGATAAACTATGTTTATCGCTGGGAGATGGGTTA Ad5/16 Fiber DNA

400 ATAACAAAAAATGATGTACTATGTGCCAAACTAGGACATGGCCTTGTTGTT Fiber 16 Genbank
400 ATAACAAAAAATGATGTACTATGTGCCAAACTAGGACATGGCCTTGTTGTT Ad5/16 Fiber DNA

450 TGA CTCTTCCAATGCTATCACCATAGAAAACAACACCTTGTTGGACAGGCG Fiber 16 Genbank
450 TGA CTCTTCCAATGCTATCACCATAGAAAACAACACCTTGTTGGACAGGCG Ad5/16 Fiber DNA

500 CAAAACCAAGCGCCAACCTGTGTAATTAAAGAGGGAGAAGATTCCCCAGAC Fiber 16 Genbank
500 CAAAACCAAGCGCCAACCTGTGTAATTAAAGAGGGAGAAGATTCCCCAGAC Ad5/16 Fiber DNA

550 TGTAAAGCTCACTTTAGTTCTAGTGAAAGAATGGAGGACTGATAAATGGATA Fiber 16 Genbank
550 TGTAAAGCTCACTTTAGTTCTAGTGAAAGAATGGAGGACTGATAAATGGATA Ad5/16 Fiber DNA

600 CATAACATTAATGGGAGCCTCAGAATATACTAACACCTTGTTTAAAAACA Fiber 16 Genbank
600 CATAACATTAATGGGAGCCTCAGAATATACTAACACCTTGTTTAAAAACA Ad5/16 Fiber DNA

650 ATCAAGTTACAATCGATGTAAACCTCGCATTTGATAATACTGGCCAAATT Fiber 16 Genbank
650 ATCAAGTTACAATCGATGTAAACCTCGCATTTGATAATACTGGCCAAATT Ad5/16 Fiber DNA

700 ATTACTTACCTATCATCCCTTAAAAGTAACCTGAACTTTAAAGACAACCA Fiber 16 Genbank
700 ATTACTTACCTATCATCCCTTAAAAGTAACCTGAACTTTAAAGACAACCA Ad5/16 Fiber DNA

750 AAACATGGCTACTGGAACCATAAACAGTGCCAAAGGCTTCATGCCAGCA Fiber 16 Genbank
750 AAACATGGCTACTGGAACCATAAACAGTGCCAAAGGCTTCATGCCAGCA Ad5/16 Fiber DNA

800 CCACCGCCTATCCATTTATAACATACGCCACTGAGACCCTAAATGAAGAT Fiber 16 Genbank
800 CCACCGCCTATCCATTTATAACATACGCCACTGAGACCCTAAATGAAGAT Ad5/16 Fiber DNA

850 TACATTTATGGAGAGTGTTACTACAAATCTACCAATGGAACCTCTCTTTCC Fiber 16 Genbank
850 TACATTTATGGAGAGTGTTACTACAAATCTACCAATGGAACCTCTCTTTCC Ad5/16 Fiber DNA

900 ACTAAAAGTTACTGTACACTAAACAGACGTATGTTAGCTTCTGGAATGG Fiber 16 Genbank
900 ACTAAAAGTTACTGTACACTAAACAGACGTATGTTAGCTTCTGGAATGG Ad5/16 Fiber DNA

950 CCTATGCTATGAATTTTTTCATGGTCTCTAAATGCAGAGGAAGCCCCGGAA Fiber 16 Genbank
950 CCTATGCTATGAATTTTTTCATGGTCTCTAAATGCAGAGGAAGCCCCGGAA Ad5/16 Fiber DNA

1000 ACTACCGAAGTCACTCTCATTAACCTCCCCCTTCTTTTTTTCTTATATCAG Fiber 16 Genbank
1000 ACTACCGAAGTCACTCTCATTAACCTCCCCCTTCTTTTTTTCTTATATCAG Ad5/16 Fiber DNA

1050 AGAAGATGACTGA Fiber 16 Genbank
1050 AGAAGATGACTGAATGCATTAGTTTGTGTTATGTTTCAACGTGTTATTT Ad5/16 Fiber DNA

1062
1100 TCAATTG Fiber 16 Genbank
Ad5/16 Fiber DNA
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Decoration 'Decoration #1': Box residues that differ from Fiber 16 Genbank.

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FIGURE 7B

Alignment Report of alignment.prot, using Clustal method with PAM250 residue weight table:
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1  M A K R A R L S S - S F N P V Y P Y E D E S S S Q H P F I N genbank Fiber 16 (SEQ ID NO:35)
1  M - K R A R P S E D T F N P V Y P Y E D E S S S Q H P F I N chimeric Ad5/Fib16 (SEQ ID NO:34)

30  P G F I S S N G F A Q S P D G V L T L K C V N P L T T A S G genbank Fiber 16
30  P G F I S S N G F A Q S P D G V L T L K C V N P L T T A S G chimeric Ad5/Fib16

60  P L Q L K V G S S L T V D T I D G S L E E N I T A A A P L T genbank Fiber 16
60  P L Q L K V G S S L T V D T I D G S L E E N I T A A A P L T chimeric Ad5/Fib16

90  K T N H S I G L L I G S G L Q T K D D K L C L S L G D G L V genbank Fiber 16
90  K T N H S I G L L I G S G L Q T K D D K L C L S L E D G L V chimeric Ad5/Fib16

120 T K D D K L C L S L G D G L I T K N D V L C A K L G H G L V genbank Fiber 16
120 T K D D K L C L S L G D G L I T K N D V L C A K L G H G L V chimeric Ad5/Fib16

150 F D S S N A I T I E N N T L W T G A K P S A N C V I K E G E genbank Fiber 16
150 F D S S N A I T I E N N T L W T G A K P S A N C V I K E G E chimeric Ad5/Fib16

180 D S P D C K L T L V L V K N G G L I N G Y I T L M G A S E Y genbank Fiber 16
180 D S P D C K L T L V L V K N G G L I N G Y I T L M G A S E Y chimeric Ad5/Fib16

210 T N T L F K N N Q V T I D V N L A F D N T G Q I I T Y L S S genbank Fiber 16
210 T N T L F K N N Q V T I D V N L A F D N T G Q I I T Y L S S chimeric Ad5/Fib16

240 L K S N L N F K D N Q N M A T G T I T S A K G F M P S T T A genbank Fiber 16
240 L K S N L N F K D N Q N M A T G T I T S A K G F M P S T T A chimeric Ad5/Fib16

270 Y P F I T Y A T E T L N E D Y I Y G E C Y Y K S T N G T L F genbank Fiber 16
270 Y P F I T Y A T E T L N E D Y I Y G E C Y Y K S T N G T L F chimeric Ad5/Fib16

300 P L K V T V T L N R R M L A S G M A Y A M N F S W S L N A E genbank Fiber 16
300 P L K V T V T L N R R M L A S G M A Y A M N F S W S L N A E chimeric Ad5/Fib16

330 E A P E T T E V T L I T S P F F F S Y I R E D D genbank Fiber 16
330 E A P E T T E V T L I T S P F F F S Y I R E D D chimeric Ad5/Fib16
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Decoration 'Decoration #1': Box residues that differ from genbank Fiber 16 .